

Title (en)

Device and method for driving, charging and feed-in operations for an electric vehicle

Title (de)

Vorrichtung und Verfahren zum sicheren Fahr-, Lade- und Rückspeisebetrieb eines Elektrofahrzeugs

Title (fr)

Dispositif et procédé de fonctionnement sécurisé de déplacement, de charge et de retour d'énergie d'un véhicule électrique

Publication

EP 2505415 A3 20150722 (DE)

Application

EP 12158520 A 20120308

Priority

- DE 202011004515 U 20110330
- DE 102011084362 A 20111012

Abstract (en)

[origin: EP2505415A2] The device has insulation monitoring device (36) that is integrated with differential current monitoring device (38) in electric vehicle (6) to form a structural unit as a combined monitoring device (41) with self-monitoring unit. A switching device (50) is provided for separating power on-board network (52) from loading station. The differential current monitoring device is designed for current sensitive detection of fault currents. Independent claims are included for the following: (1) method for safe driving operation and for safe loading and regenerative operation of electric vehicle at loading station; and (2) apparatus for safe driving operation and for safe loading and regenerative operation of electric vehicle at loading station.

IPC 8 full level

B60L 3/00 (2006.01); **B60L 3/04** (2006.01); **B60L 11/18** (2006.01); **H02H 3/16** (2006.01); **H02H 3/33** (2006.01); **H02J 7/00** (2006.01)

CPC (source: EP US)

B60L 3/0069 (2013.01 - EP US); **B60L 3/04** (2013.01 - EP US); **B60L 50/51** (2019.01 - EP US); **B60L 53/16** (2019.01 - EP US); **B60L 53/18** (2019.01 - EP US); **B60L 53/22** (2019.01 - EP US); **B60L 53/30** (2019.01 - EP US); **B60L 53/63** (2019.01 - EP US); **B60L 53/65** (2019.01 - EP US); **B60L 55/00** (2019.01 - EP US); **H02H 3/05** (2013.01 - EP US); **H02H 3/26** (2013.01 - EP US); **H02H 3/33** (2013.01 - US); **H02J 7/0031** (2013.01 - EP US); **B60L 2210/30** (2013.01 - EP US); **B60L 2250/10** (2013.01 - EP US); **H02J 2310/48** (2020.01 - EP US); **Y02E 60/00** (2013.01 - EP US); **Y02T 10/70** (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP US); **Y02T 10/72** (2013.01 - EP US); **Y02T 10/92** (2013.01 - EP US); **Y02T 90/12** (2013.01 - EP US); **Y02T 90/14** (2013.01 - EP US); **Y02T 90/16** (2013.01 - US); **Y02T 90/167** (2013.01 - EP US); **Y04S 10/126** (2013.01 - EP US); **Y04S 30/14** (2013.01 - EP US)

Citation (search report)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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